

ABSTRACT

A device for detecting a road traveling lane, which is capable of stably defining a position of a boundary of a traveling lane. Edge point detection means (ED) detects a plurality of edge points in a contour on an image, and segment group producing means (SD) produces a line segment on the basis of continuity of distance and direction between neighboring edge points, and groups a plurality of line segments having a predetermined relationship with each other, to produce a segment group. Further, curve detection means (CD) detects a curve fitted to the segment group. Then, when a segment group forming a curve closest to the center of the traveling lane has a predetermined length and repeated cycle, lane boundary position defining means (LD) defines the segment group as the innermost marking line, and defines a position of a neighboring curve outside of the innermost marking line as the position of the boundary of the traveling lane.